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KADEA .		"Applications of Ion Beams to Materials, 1975		o. 28, Capter 1, 1976, pgs. 30-36
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			February 23, 2004	2823
*EXAMINER	OTHER DOCUMENTS	(Including Application	e, Date, Pertinent Pages, Etc.)	
INITIAL	"Hydrogen-Related Complex	ces as the Stressing Sp	ecies in High-Fluence, Hydroge	n-Implanted, Single-Crystal Silicon"
1=	Ceroionni et ai., Physicai Rei	new B, volume 40, Nu	mber 4, 1992, pgs. 2001-2070	
	"Crystallographic Nature an	d Formation Mechani	sms of Highly Irregular Struct	ure in Implanted and Annealed Si Layers"
	Komarov et al., Kaalation Ejj	rects, volume 42, 1979	, pgs. 109-176	
	"Observation of Blistering an	nd Amorphization on	Germanium Surface After 450	keV Ar+ION Bombardment" Kamada et
	al, Radiation Effects, Volume	28, 1970, pgs. 43-48		•
	"Orientation Dependence of Physics, Volume 25, No., 10,	Flaking of Ion Irradia	ted Aluminum Single Crystals	Ono et al., Japanese Journal of Applied
	Thysics, Volume 25, 140., 10,	1900, pgs. 1473-1400		
1				
	"High Fluence Retention of I	Noble Gases Implante	d in Silicon" Wittmaack et al.,	Radiation Effects, Volume 39, 1978, pgs.
(3)	01-73			
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## INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

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Application Nu

Filing Date

		February 6, 2001	2823
*EXAMENER INITIAL	OTHER DOCUMENTS (Including Author,	Title, Date, Pertinent Pages, Etc.)	
G	Ascheron, C., "A Comparative Study of Swellin Proton-bombarded GaAs, GaP, InP, Si and Ge S Nuclear Instruments and Methods in Physics Re	Single Crystals Nuclear Instruments and	ge of High-Energy Methods in Physics Research"
	Ascheron, C., "A Study of Proton Bombardmen	t Induced Swelling of GaP Single Crysta	ls" phys. stat. sol. (a) 92, 169 (1985).
	Ascheron, C., "Gettering of Copper in Proton-a (a) 106, 73 (1988).	ad Helium-Bombarded Buried Regions o	f Gallium Phosphide" phys. stat. sol.
	Ascheron, C., "Investigations of Hydrogen Impl Infrared Spectroscopy, and Turyherford Backso	anted GaP Single Crystals by Means of l attering Channeling Technique" phys. s	Particle Induced ?-Spectroscopy, tat. sol. (a) 89, 549 (1985).
	Ascheron, C., "Proton Beam Modification of Se	lected AIIIBV Compounds" pbys. stat. s	rol. (a) 124, 11 (1991).
	Ascheron, C., "Swelling, Strain, and Radiation I	Damage of He+ Implanted GaP" phys. st	at. sol. (a) 96, 555 (1986).
	Asheron, C., "The Effect of Hydrogen Implanta Methods in Physics Research B28 (1987) 350-35	tion Induced Stress on GaP Single Cryst 9.	als" Nuclear Instruments and
	Bruel, M., "Silicon-On-Insulator" European Sei	niconductor, March 1997.	
	Cassidy, Victor M., "Ion Implantation Process T	oughens Metalworking Tools," Modern	Metals, pp. 65-67, 1984.
	Chu et al, "Radiation Damage of 50-250 keV Hy et al., Plenum New York 1976, pp. 483-492.	drogen Ions in Silicon", Ion Implantatio	n in Semiconductors, eds. F. Chernob
	Chu, P.K. et al., Plasma Immersion Ion Implants and Engineering Reports: A Review Journal, pp	ation-A Fledgling Technique for Semicor . 207-280, vol. R.] 7, Nos. 6-7, Nov. 30, 19	nductor Processing, Materials Science 196.
G	Chu, Kastle, Lever, Mader and Masters, S, Radi Canham, Dyball Leong, Houlton, Cullis and Smi in Semiconductors 1976, Chernow, Borders and keV Hydrogen Ions In Silicon, , pp. 483-391.	ative Recombination Channels due to H th, Materials Science and Engineering, I Brice, Pirnum Press, New York and Los	ydrogen in Crystalline Silicon, B4 (1989), pp. 41-45. Ion Implantation adon, Radiation Damage of 50-250
EXAMINER	Fourson	DATE CONSIDERED	(17/05
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P09B/REV04

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and

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Docket Number (Optional)

**BREV 12370** 

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Applicant(s)
ASPAR et al.

Filing Date

February 6, 2001

2823

<u> </u>		2823
*EXAMINER INITIAL		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
F		Cullis, A.G., T.E. Seidel and R.L. Meek, "Comparative study of annealed neon-, argon-, and krypton-ion implantation damage in silicon," J. Appl. Phys., 49(10), pp. 5188-5198, Oct. 1978.
( )	ļ	ForNisco F "Compation of the Inches of Good all all the second of the Inches of the In
		EerNisse, E., "Compaction of ion-implanted fused silica" Journal of Applied Physics, Vol. 45, No.1, January 1974.
	ļ	
		EerNisse, E.P., "Role of Integrated Lateral Stress In Surface Deformation of He- implanted Surfaces" Journal of Applied Physics, Vol. 48, No. 1, January 1977.
	<u> </u>	Franc I H "An Interhubble Frantism Machanism Of Blister Francisco On Victor Van II al 12 a
		Evans, J.H., "An Interbubble Fracture Mechanism Of Blister Formation On Helium-Irradiated Metals" Journal of Nuclear Materials 68(1977) 129-140.
		menko, N., "Infrared Absorption of Silicon Irradiated by Protons" phys. stat.sol. (b) 90, 689 (1978).
		Gerasimenko, N., "Infrared Absorption of Silicon Irradiated by Protons" phys. stat.sol. (b) 90, 689 (1978).
		Greenwald, A.C., "Pulsed-electron-beam annealing of ion-implantation damage" J. Appl. Phys. 50(2), February 1978.
	<u> </u>	Grovenor, C.R.M., Microelectronic Materials, pp. 73-75 (1989).
		Haisma et al., Silicon-on-Insulator Wafer Bonding-Wafer Thinning Technological Evaluations, Japanese Journal of Applied Physics, 28(1989), Aug., No. 8, Part 1, Tokyo, Japan, pp. 1426-1443.
		Hamaguchi et al., Device Layer Transfer Technique using Chemi-Mechanical Polishing, Japanese Journal of Applied Physics, 23(1984), Oct., No. 10, Part 2, Tokyo, Japan, pp. L815-L817.
		Helium Bubble and Blister Formation for Nickel and An AMorphous Fe-Ni-Mo-B Alloy During 5 keV He+-Irradiation at Temperatures Between 200 K and 600 K, Swijgenhoven, Stals and Knuyt, Nuclear Instruments and Methods 209/210 (1983) pp. 461-468.
(3		Hulett, D.M. et al., "Ion Nitriding and Ion Implantation: A Comparison," Metal Progress, pp. 18-21, 1985.
EXAMINER	<u> </u>	FOURSIN DATE CONSIDERED 9/17/05
		citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and copy of this form with next communication to applicant.

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not considered. Include copy of this form with next communication to applicant.

Docket Number (Optional)

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Applicant(s) ASPAR et al.

Filing Date

Group Art Unit

		February 6, 2001	2823				
*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, 7	itle, Date, Pertinent Pages, Etc.)					
G	Japan Applied Physics; 64(8); October 15, 1988; pp. 3972-3974.						
	Johnson, P.B., "High Fluence Deuteron Bombaro	Iment of Silicon" Radiation Effect 197	7, Vol. 32 pp. 159-167.				
	"Isolation by Inert Ion Implantation" IBM Techn	ical Disclosure Bulletin Vol. 29, No. 3,	August., 1986, p. 1416.				
	Klem, J.F., Characteristics of Lift-Off Fabricated Silicon Substrates, Inst. Phys. Conf. Ser. No. 96:	AIGaAs/InGaAs Single-Strained-Quai Chapter 6, pp. 387-392 (1989).	ntum Well Structures On Glass and				
	Li, J., "Novel Semiconductor Substrate Formed b pp. 2223-2224, Nov. 20, 1989.	y Hydrogen Ion Implantation into Silic	on," Appl. Phys. Lett., vol. 55, No. 21,				
	Ligeon, E., "Hydrogen Implantation in Silicon Be	tween 1.5 and 60 KeV" Radiation Effe	cts 1976, Vol. 27, pp. 129-137				
	Manuaba, A., "Comparative Study on Fe32Ni360 by 2000 keV Helium Ions with High Fluence" Nu	Cr14P12B 6 Metallic Glass and its Poly clear Instruments and Methods 199 (19	crystalline Modification bombarded 82) 409-419.				
	Matsuda et al., "Large Diameter Ion Beam Impla 1987.	ntation System," Nuclear Instruments	and Methods, vol. B21, pp. 314-316,				
	Mishima, Y. and T. Yagishita, T. "Investigation of infrared mirospectroscopy" J. Appl. Phys., Vol. 6	f the bubble formation mechanism in a 4, No. 8, 15 October 1988.	a-Si:H films by Fourier-transform				
Miyagawa, S., "Helium remission during implantation of silicon carbide" J. Appl. Phys. 54 (5), May 1983.							
	Miyagawa, S., "Surface structure of silicon carbide irradiated with helium ions with monoenergy and continuous energy distributions" J. Appl. Phys. 53(12), December 1982, pp.8697-8705.						
G	Moreau, Wayne M., "Semiconductor Lithograph Contents only.	y, Principles, Practices, and Materials,	' Plenum Press, 1988. Table of				
EXAMINER	Foliason	D'ATE CONSIDERED 9/1	7(05				

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and

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Docket Number (Optional)

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Application Number

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Filing Date

Group Art Unit

February 6, 2001 2823 \*EXAMINER OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) INITIAL Moriceau, H. et al, A New Characterization Process Used to Qualify SOI Films 1991 pp. 173-178. Myers, D. R., "The effects of ion-implantation damage on the first-order Raman spectra of GaPa) J. Appl. Phys. 54(9), September 19??. Neethling, J.H. et al., Identification of Hydrogen Platelets in Proton-Bombarded GaAs, 1985, pp. 941?-945. Paszti, F., "Flaking and Wave-Like Structure on Metallic Glasses Induced by MeV-Energy Helium Ions" Nuclear Instruments and Methods 209/210(1983) 273-280. Picraux, S. Thomas et al., "Ion Implantation of Surfaces," Scientific American, vol. 252, No. 3, pp. 102-113 1985. Primak, W., "Impurity Effect in the Ionization Dilation of Vitreous Silica" J. Appl. Phys. 39(13) 1968. Renier, M. et al., "A New Low-Engergy Ion Implanter for Bombardment of Cylindrical Surfaces," Vacuum, vol. 35, No. 12, pp. 577-578, 1985. Roth, J., "Blistering and Bubble Formation" Inst. Phys. Conf. Ser. No. 28 @ 1976: Chapter 7. Sah, Chih-Tang et al., "Deactivation of the Boron Acceptor in Silicon by Hydrogen," Appl. Phys. Lett. 43(2), July 1983, pp. 204-06.

Snyman, H. C., "Transmission Electron Microscopy of Extended Crystal Defects in Proton Bombarded and Annealed GaAs" Radiation Effects, 1983, Vol. 69, pp. 199-230.

Sioshansi, Piran, "Ion Beam Modification of Materials for Industry," Thin Solid Film, vol. 118, pp. 61-71, 1984.

Snyman, H. C., "Void formation in annealed proton-bombarded GaAs."

**EXAMINER** 

FOURSON

DATE CONSIDERED

2/10/05

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Use several sheets if necessary)

Docket Number (Optional) BREV 12370 ( Applicant(s)

Application Number

Filing Date

ASPAR, et al.

Group Art Unit

February 6, 2001 2823 \*EXAMINER OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) INITIAL Stephan, D., "Investigation of Lattice Strain in Proton-Irradiated GaP by a Modified Auleytner Technique" phys. stat. sol. (a) 87, pp. 589-96 (1985). Sze, S.M., VLSI Technology, 2.sup.nd Ed., pp. 9-10 (1988). Tzeng, J.C., "A Novel Self-Aligned Oxygen (Salox) Implanted SOI Mosfet Device Structure" Nuclear Instruments and Methods in Physics Research B2, pp. 112-15 (1987). U.S. Dept. of Energy, "The Fusion Connection: . . . ", Plasma Coating, pp. 6-7, 1985. Veldkamp, W.B. et al., "Binary Optics," Scientific American, pp. 50-55, May 1992. Wemple, S.H., "Optical and channeling studies of ion-bombarded GaP" J. Appl. Phys., Vol. 45, No. 4, April 1974. Wolf, Stanley Ph.D., Silicon Processing for the VLSI Era (vol. 2), pp. 66-79, Lattice Press, 1990. **DATE CONSIDERED** EXAMINER -ourson

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

### Docket Number (Optional) Application Number BREV 12370 C INFORMATION DISCLOSURE CITATION Applicant(s) ASPAR ET AL (Use several sheets if necessary) Filing Date **U.S. PATENT DOCUMENTS** EXAMINER FILINGUATE · NAME CLASS SUBCLASS REF DOCUMENT NUMBER DATE INITIAL IF APPROPRIATE 5,256,581 10/26/93 FOERSTNER ET AL 437 24 458 ASPAR ET AL 438 6,020,252 2/1/00 FOREIGN PATENT DOCUMENTS Translation CLASS SUBCLASS COUNTRY DOCUMENT NUMBER DATE OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant:

## INFORMATION DISCLOSURE CATATION (Use several sheets if necessary)

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ASPAR ET AL

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#### U.S. PATENT DOCUMENTS

EXAMINER NITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
26 F	4,704,302	11/3/87	Bruel et al		)	
T	5,234,535	8/10/93	NBeyer et al			·
	5,494,835	2/27/96	Bruel .			
	5,804,086	9/8/98	Bruel			
	5,817,368	10/6/98	Hashimoto			
	5,863,830	1/26/99	Bruel et al			
	5,897,331	4/27/99	Sopori			
	5,633,174	5/27/97	Li			
1/3	5,250,446	10/5/93	Osowa et al			
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#### FOREIGN PATENT DOCUMENTS

			·		CLASS	SUBCLASS	TRANSLATION	
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1	+	GB 2 211 991	7/12/89	UK				
	7							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EerNisse, E.P. et al, "Role of integrated laterial stress in surface deformation of He-implanted surfaces," Journal of Applied Physics, Vol 48, No 1, January 1997, pp 9-17

Evans, J.H., "An interbubble fracture mechanism of blister formation on Heluim-Irradiated Metals," Journal of Nuclear Materials, Vol 68, 1997, pp 129-140

EXAMINER

D.M. Cours Fourson

DATE CONSIDERED

12-21-01 6/17/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Filing Date	Group Art Cnit	-U

•EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
( )	Roth, J., "Blistering and bubble formation," Inst. Phys. Conf. Ser., No. 28, 1976, pp 280-293
Dari	
7	Ligeon, E. et al, "Hydrogen Implantation in Silicon Between 1.5 and 60 KeV," Radiation Effects, Col. 27, 1976, pp 129-137
	Ascheron, C. et al, "Gettering a Copper in Proton- and Helium-Bombarded Buried Regions of Gallium Phosphide,". Phys. Stat. So. (a), 106, 73, 1988, pp. 73-79
	Ascheron, C. et al, "A comparative study of Swelling, Strain and Radiation damage of High-Energy Proton-Bombarded GaAs, GaP, InP, Si and Ge Single Crystals," Nuclear Instructions and Methods in Physics Research, B36, 1989, pp. 163-172
	Ascheron, C. et al, "Proton Beam Modification of Selected A-III B-v Compounds," Phys. Stat. Sol. (a), 124,11, 1991 pp 10-55
	DiCioccio, et al., "Silicon carbide on insulator formation using the Smart Cut process, Electronics Letters, Vol 32, No. 12, June 6, 1996, pp 144-145
	Ascheron, C. et al, "The Effect of Hydrogen Implantation Induced Stress on GaP Single Crystals, Nuclear Instruments & Methods in Physics Research, B28, 1987, pp 350-359
	Bruel, Michel, "Application of hydrogen ion beams to Silicon on Insulator material technology", Nuclear Instruments and Methods in Physics Research, B108, 1996, pp 313-319
	Auberton-Herve, A.J. et al, "SOI Materials for ULSI Applications", Semiconductor International, October 1995, 5 pps.
	Cristoloveanu, S. et al, "Electrical Properties of Unibond Material", Electrochemical Society Proceedings, Vol 96-3, pp 142-147
	Maleville, C. et al, "Physical Phenomena involved in the Smart-Cut Process", Electrochemical Society Proceeding, Vol 96-3, pp 34-46
V	Chu et al, "Radiation Damage of 50-250 keV Hydrogen lons in Silicon", Ion Implantation in Semiconductors, eds. F. Chernob et al., Plenum New York 1976, pp 483-492
EXAMINER D	M. COTTUS FOURSON DATE CONSIDERED 12-21-01 9/17/05

\*EXAMINER: Initial is citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	Groop	CA COURT		_	_

*EXAMINER	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Da	Johnson, "High Fluence Deuteron Bombardment of Silicon", Radiation Effects, Vol 32, pp 159-167
	Aspar, B. et al, "Characterization of SOI substrates: Application to Recent SIMOX and UNIBOND Wafers," Electrochemical Society Proceedings, Vol 96-3, pp 99-111
	Bruel, M. et al, "Smart-Cut - a new SOI Material Technology based on hydrogen implantation and wafer bonding," CEA 1996, 24 pages
	Bruel, M. et al, "Smart-Cut": A promising New SOI material technology, Proceedings 1999 IEEE, International SOI Conference, October 1995, pp 178-179
16	Ascheron, et al, "Swelling, Strain, and Radiation Damage of He+ Implanted GaP, Phys. Stat. Sol. (a) 96, pp 555-562, 1986
	M. COURSON DATE CONSIDERED 12-21-01 9/17/05
*EXAMINER: Init not considered. In	ally citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and lude copy of this form with next communication to applicant.

Filing Date

FORM PTO-1449	SERIAL NO.	CASENO
	10/189601	BREV 12370 CON 2
LIST OF PATENTS AND PUBLICATIONS FOR	FILING DATE	GROUP ART UNIT
APPLICANT'S INFORMATION DISCLOSURE	•	1 1877
STATEMENT		1/003
(use several sheets if necessary)	APPLICANT(S): Aspar e	et al.

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

#### U.S. PATENTS

PATENT NO.	INVENTOR	ISSUE DATE
4,179,324	: 12/18/79	Kirkpatrick
チ <sup>4,170,524</sup> 5,110,748	5/5/92	Sarma
5.310,446	5/10/94	Konishi et al.
5,661,333	8/26/97	Bruel et al.
1/		

#### FOREIGN PATENTS

	DOCUMENT NO.	COUNTRY		DATE
(¥	2725074	France ·		March 29, 1996
G	0355913	EPO	•	February 28, 1990
7-	0355913 0504714	EPO		September 23, 1992

#### OTHER PUBLICATIONS

Silicon-On-Insulator, European Semiconductor, March, 1997, pages 17 and 18

Aspar et al., <u>SMART-CUT®</u>: The basic fabrication process for <u>UNIBOND® SOI</u> wafers, *SEMI* 1996, pp. 37-46

Klem et al., Characteristics of lift-off fabricated AlGaAs/InGaAs single-strained quantum well structures on glass and silicon substrates, *Inst. Phys. Conf.*, Ser. No 96: Chapter 6, pp. 387-392

Hamaguchi et al., <u>Device Layer Transfer Technique using Chemi-Mechnical Polishing</u>,"

Japanese Journal of Applied Physics, 23(1984), Oct., No. 10, Part 2, Tokyo, Japan, pp. L815-L817

Haisma et al., Silicon-on-Insulator Wafer Bonding-Wafer Thinning-Fechnological Evaluations, Japanese Journal of Applied Physics, 28(1989), Aug., No. 8, Part 1, Tokyo, Japan, pp. 1426-1443

D. M. COURS FOURSUN 12-21-01 9/17/05



FORM PTO-1449	SERIAL NO.	CASE NO. BREV 12370 CON 2
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE	GROUP ART UNIT
(use several sheets if necessary)	APPLICANT(S):	Aspar et al.

REFERENCE DESIGNATION

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
DARELY	A1	4,179,324	12/18/79	Kirkpatrick	156/230	11/28/77
1 /4	A2	5,110,748	5/5/92	Sarma	437/51	7/22/91
65	A3	5.310,446	5/10/94	Konishi et al.	117/58	7/13/92
1//4	A4	5,661,333	8/26/97	Bruel et al	257/618	1/25/95
	A5					
	A6					
	A7					
	A8					

#### FOREIGN PATENT DOCUMENTS

EXAMINER		DOCUMENT			CLASS/	TRANS	LATION
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DAKE	A9	2725074	3/29/96	France			Х
F	A10	0355913	2/28/90	· EPO	` .	X	
J (7	A11	0504714	9/23/92	EPO		X	

EXAMI			OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)
A12 Silicon-On-Insulator, European Semiconductor, March, 1997, pages 17 and 18			
	E	A13	Aspar et al., SMART-CUT 8: The basic fabrication process for UNIBOND 8 SOI wafers, SEMI 1996, pp. 37-46
	(F	A14	Klem et al., Characteristics of lift-off fabricated AlGaAs/InGaAs single-strained quantum well structures on glass and silicon substrates, Inst. Phys. Conf., Ser. No 96: Chapter 6, pp. 387-392
	6	A15	Hamaguchi et al., <u>Device Laver Transfer Technique using Chemi-Mechnical Polishing</u> ," Japanese Journal of Applied Physics, 23(1984), Oct., No. 10, Part 2, Tokyo, Japan, pp. L815-L817
	G	A16	Haisma et al., Silicon-on-Insulator Wafer Bonding-Wafer Thinning Technological Evaluations,  Japanese Journal of Applied Physics, 28(1989), Aug., No. 8, Part 1, Tokyo, Japan, pp. 1426-1443

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BREV 12370 CON-ASPAR ET AL FILING

U.S. PATENT	DOCUMENTS
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CAMINER ITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
DATE	4,931,405	06/05/1990	KAMIJO ET AL	437	12	
1/4	5,034,343	07/23/1991	ROUSE ET AL	437	86	
1/2	5,198,371	03/30/1993	Lī	437	11	
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#### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMSER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLAT IN	
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Doct	F	53-104156	09/11/1978	JAPAN	H01L	21/322	•	J.
porch	CL	59-54217	03/29/1984	JAPAN	HO1L	21/20		J

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	· · · · · · · · · · · · · · · · · · ·
	W.K. CHU, ET AL RADIATION DAMAGE OF 50-250 keV HYDROGEN IONS IN SILICON DATE UNKNOWN
Doe	
	WILLIAM PRIMAK ET AL IMPURITY EFFECT IN THE IONIZATION DILATATION OF VITREEOUS SILICA
Dax	1967

EXAMINER

DATE CONSIDERED 12-21-01 5/17/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## INFORMATION DISCLOSURE ( TION (Use several sheets if necessary)

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Applicant(s)
ASPAR ET AL
Filing Date

Group ATT

ENAMINER-	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
43111616	ERROL P. EERNISSE, COMPACTION OF ION-IMPLANTED FUSED SILICA, 1973
DAK	
-4	S.H. WEMPLE ET AL, OPTICAL AND CHANNELING STUDIES OF ION-BOMBARDED GaP, 1973, PAGES 1578-1588
	E.P. EERNISSE ET AL., ROLE OF INTERGRATED LATERAL STRESS IN SURFACE DEFORMATION OF H-IMPLANTED SURFACES, 1976, PAGES 9-17
	J.H. EVANS, AN INTERBUBBLE FRACTURE MECHANISM OF BLISTER FORMATION ON HELIUM-TRRADIATED METALS, 1977, PAGES 129-140
·	N.N. GERASIMENKO ET AL, INFRARED ABSORPTION OF SILICON IRRSDIATED BY PROTONS, 1978 PAGES 689-695
	A.C. GREENWALRD ET AL; PULSE-ELECTRON-BEAM ANNEALING OF ION IMPLANTATION DAMAGE, 1978 PAGES 783-786
	H.C. SNYMAN ET AL, VIOD FORMATION IN ANNEALED PROTON-BOMBARDEDGaAs, 1981, PAGES 243-245
	S. MIYAGAWA ET AL, HELIUM REEMISSION DURING IMPLANTATION OF SILICON CARBIDE, 1982, PAGES 2302-2306
	A. MANUABA ET AL, COMPARATIVE STUDY OF Fe32Ni36Cr14P12B6 METALLIC GLASS AND ITS POLYCRYSTALLINE MODIFICATION BOMBARDED BY 2000 key HELIUM IONS WITH HIGH FLUENCE 1982, PAGES 409-419
	S. MIYAGAWA ET AL, SURFACE STRUCTURE OF SILICON CARBIDE IRRADIATED WITH HELIUM IONS WITH MONOENERGY AND CONTINUOUS ENERGY DISTRIBUTIONS, 1982, PAGES 8697-8705
	H.C. SNYMAN ET AL, TRANSMISSION ELECTRON MICROSCOPY OF EXTENDED CRYSTAL DEFECTS IN PROTON BOMBARDED AND ANNEALED GaAs, 1982, PAGES 199-230
J.	D.R. MYERS ET AL, THE EFFECTS OF ION-IMPLANTATION DAMAGE ON THE FIRST-ORDER TAMAN SPECTRA OF GaPa, 1983, PAGES 5032-5038
AMINER	D. A. COLLIS FOURSON DATE CONSIDERED 12-21-0, 9/17/05
CAMINER:	: Initial If citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and

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BREV 12370 CON Applicant(s)
ASPAR ET AL
Filling Date

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*ENAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Perlinent Pages, Etc.)
DAL	F. PASZTI ET AL, FLAKING AND WAVE-LIKE STRUCTURE ON METALLIC GLASSES INDUCED BY MeV-ENERGY HELIUM IONS, 1983 PAGES 273-280
7	C. ASCHERON ET AL, PROTON BOMBARDMENT INDUCED SWELLING OF G2P, 1985, PAGES 169-176
	C. ASCHERON ET AL, INVESTIGATION OF HYDROGEN IMPLANTED GaP CRYSTALS, 1985, PAGES 549-557
	J.H. NETHLING ET AL, IDENTIFICATION OF HYDROGEN PLATELETS IN PROTON-BOMBARDED GaAs, 1985. PAGES 941-945
	D. STEPHAN ET AL, INVESTIGATION OF LATTICE STRAIN IN PROTON-TRRADIATED GaP BY A MODIFIED AULEYTNER TECHNIQUE, 1985, PAGES 589-596
	J.C. TZENG ET AL, A NOVEL SELF-ALIGNED OXYGEN (SALON) IMPLANTED SOI MOSFET DEVICE STRUCTURE, 1985, PAGES 112-115
	IBM TECHNICAL DISCLOSURE BULLETIN, ISOLATION BY INERT ION IMPLANTATION, 1986, VOL. 29 NO. 3
	J. HAISMA ET AL., SILICON-ON-INSULATOR WAFER BOINDING-WAFER THINNING TECHNOLOGICAL EVALUATIONS, 1989, PAGES 1426-1443
	JIANNING LI, NOVEL SEMICONDUCTOR SUBSTRATE FORMED BY HYDROGEN ION IMPLANTATION INTO SILICON, 1989, PAGES 2223-2224
	H. MORICEAU ET AL, A NEW CHARACTERIZATION PROCESS USED TO QUALIFY SOI FILMS, 1991 PAGES 173-178
	A.J. AUBERTON-HERVE ET AL., SOI MATERIALS FOR ULSI APPLICATION, 1995,
(3	M. BRUEL ET AL, "SMART-CUT": A PROMISING NEW SOI MATERIAL TECHNOLOGY, 1995, PAGES 178-179
CAMINER	DACOUTES FOURSON DATE CONSIDERED 12-21-019/17/05
IXAMINER: I	nitial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and

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## INFORMATION DISCLOSURE ( TION (Use several sheets if necessary)

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Applicant(s) ASPAR ET AL	
Filing Date	Groundriknik

*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
13(1).56	M. BRUEL ET AL., "SMART-CUT": A PROMISING NEW SOI MATERIAL TECHNOLOGY, 1995, PAGES 178-179
Date	
70	B. ASPAR ET AL, TRANSFER OF STRUCTURED AND PATTERNED THIN SILICON FILMS USING THE SMART-CUT PROCESS, 1996, PAGES 1985-1986
	A.J. AUBERTON-HERVE ET AL, A NEW SOI MATERIAL: SMART-CUT, 1996, PAGES 214-219
	MICHEL BRUEL, SMART-CUT PROCESS: THE WAY TO UNIBOND S.O.I. WAFERS, 1996 (PAGES UNKNOWN)
	LETI OUTLINE- A NEW SOI MATERIAL TECHNOLOGY, 1996 (AUTHOR UNKNOWN), (PAGES UNKNOWN)
	B. ASPAR, BASIC MECHANISMS INVOLVED IN THE SMART-CUT PROCESS, 1997, PAGES 223-240
	MICHEL BRUEL ET AL, SMART-CUT: A NEW SILICON ON INSULATOR MATERIAL TECHNOLOGY BASED ON HYDROGEN IMPLANTATION AND WAFER BONDING, 1997, PAGES 1636-164, COL. 36, PART 1, NO. 3B
	L. DI CIOCCIO ET AL, SILICON CARBIDE ON INSULATOR FORMATION BY THE SAMRT-CUT PROCESS, 1997 PAGES 349-356
	CHRISTOPHE MALEVILLE ET AL, WAFER BONDING AND H-IMPLANTATION MECHANISMS INVOLVED IN THE SMART-CUT TECHNOLOGY, 1997, PAGES 14-19
	H. MORICEAU ET AL, THE SMART-CUT PROCESS AS A WAY TO CHIEVE SPECIFIC FILM THICKNESS IN SOI STRUCTURES, 1997, PAGES (UNKNOWN)
V&	D. MUNTEANU ET AL, DETAILED CHARACTERIZATION OF UNIBOND MATERIAL, 1997, PAGES 395-398
B	
CAMINER /	D.M. CONTES FOURSON DATE CONSIDERED P-21-04 5/17/05

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and it considered. Include copy of this form with next communication to applicant.

## INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

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	<u></u>	OTHER DOCUME	NTS (Includin	g Author, Title, Date, Pertinent i	Pages, Etc.)		<u> </u>	
		Comparative study of an		~	-		llis, T. E. S	eidel and
Don	Comparative study of annealed neon-, argon-, and krypton- ion implantation damage in silicon, A.G. Cullis, T. E. Scidel and R.L. Meck, J. Appl. Phys. 49(10) October 1978, pgs. 5188 - 5198							
_0		Equilibrium Shape of Si	Eaglesham, Wh	ite, Feldman, Moriya nd Jacobson, l	Physical Revie	w Letters, Vo	lume 70, N	umber
Equilibrium Shape of Si, Eaglesham, White, Feldman, Moriya nd Jacobson, Physical Review Letters, Volume 70, Number 11, March 15, 1993, pgs. 1643-1646								
EXAMINER	EXAMINER D. M. EOLDENS FOURSON DATE CONSIDERED B-21-0, 9/17/05							
'EXAMINE	EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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#### U.S. PATENT DOCUMENTS

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	La Formation Des Cloques, Saint-Jacques, Nuclear Instruments and Methods 209/210 (1983), pgs. 333-343
Drie !	
7 (4)	
	Hydrogen Interaction with phosphorus ion implanted silicon, Tonini, Monelli, Corni, Ottaviani, Frabboni, Can

Hydrogen Interaction with phosphorus ion implanted silicon, Tonini, Monelli, Corni, Ottaviani, Frabboni, Canteri, Queirolo, Ion Implantation Technolocay - 94, pgs 801-804

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12-21-0, 9/17/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	_,		(Molduling Aduloi, Tillo, Bata, Fortillott Pages, Etc.)
	Pare		Helium Bubble and Blister Formation for Nickel and An AMorphous Fe-Ni-Mo-B Alloy During 5 keV He+-Irradiation at Temperatures Between 200 K and 600 K, Swijgenhoven, Stals and Knuyt, Nuclear Instruments and Methods 209/210 (1983 pgs. 461-468
_			Unfrared Spectroscopy of chemically bonded hydrogen at voids and defects in silicon, Stein, Myers and Follstaedt, J. Appl.

Phys. 73(b6), 15 March 1993, pgs. 2755-2764

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

#### INFORMATION DISCLOSURE LICATION (Use several sheets if necessary)

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DOC			Implantation and thermal oxidation	•			
DARC	Radiative Recor Smith, Miterials	mination Channels due to Science and Engineering	o Hydrogen in Crystalline Silicon, C g, B4 (1989) pgs 41-45	anham, Dybal	I, Leong, Hou	lton, Cullis a	nd
EXAMINER	D & COUNT	S FOGRS	DATE CONSIDERED	12-21-	2. 51	10/00	

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#### U.S. PATENT DOCUMENTS

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	D	RC	5	$\Box$	3	7	4	5	6	4	12/20/94	Bruel	437	24	
				5	4	1	3	9	5	1	5/9/95	Ohori et al	437	61 .	
				5	5	2	4	3	3	9	6/11/96	Gorowitz et al	29	841	
			 T	5	5	5	9	0	4	3	9/24/96	Bruel	437	24	
	$\neg$			5	5	6	7	6	5	4	10/22/96	Beilstein, Jr. etal	437	209	
			Т	5	6	1	8	7	3	9	4/8/97	Takabashi et al	438	158	
-	7			5	6	2	2	8	9	þ	4/22/97	Knotter et al ,	438	123	
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### FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

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		 6	6	5	5	8	8	Al	1/24/95	EPO	HOLL	21/20		x
17	4	2	6	8	1	4	7	2	9/18/91	France	HO1L -	21/265		x
$\mathcal{O}$	•													

OTHER DOCUMENTS (including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

( 000	"Silicon on insulator Material Technology" Bruel, M.
(Se) m	Electronic Letters; 31 (1995) 06 July; No. 14; pgs 1201-1202
Dark	"Investigation of the Bubble Formation Mechanism in a-Si:H films by Fourier-transform infrared microspectroscopy" Mishima et al
G DAK	Japan Allied Physics; 64(8); October 15, 1988; pgs. 3972-3974
EXAMINER	DATE CONSIDERED
<u></u>	DATE CONSIDERED  12-21-019/17/05

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.